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# THE UNITED STATES OF ANTERIOR

# TO ALL TO WHOM THESE PRESENTS SHALL COME; Denholm Seeds

Telliereas, there has been presented to the

#### Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW in such cases made and provided have BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, therefore, this certificate of plant variety protection is to grant unto the said applicant(s) and the successors, heirs or assigns of the said applicant(s) for the term of seventeen. Years from the date of this grant, subject to the payment of the required fees and periodic replenishment of viable basic seed of the variety in a public repository as provided by LAW, the right to exclude others from selling the variety, or offering it for sale, or reproducing it, or importing it, or exporting it, or using it in producing a hybrid or different variety therefrom, to the extent provided by the Plant Variety Protection Act 34 Stat. 1542, as amended, 7 U.S.C. 2321 et seq.)

NASTURTIUM

'Scarlet Jewel'

In Ecstimony Withercof, I have hereunts set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington this 20th day of November in the year of our Lord one thousand nine hundred and seventy-four

Commissioner Folling
Plant Variety Protection Office
Grain Tinision
Agricultural Marketing Service

Earl L. But

FORM GR - 470 (12-15-72)

# UNITED STATES DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE GRAIN DIVISION HYATTSVILLE, MARYLAND 20782

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

FORM APPROVED OMB NO. 40-R3712

NSTRUCTIONS: See Reverse.					
I. VARIETY NAME OR TEMPORARY DESIGNATION	2. KIND NAME		FOR OFFICIAL USE ONLY PV NUMBER		
Scarlet Jewel	NASTURTIU	М	7 2	006	
3. GENUS AND SPECIES NAME	4. FAMILY NAME (Bo		FILING DATE	TIME	
			7.19.71	<b>3</b> P.M.	
Tropaeolum majus		Tropaeoacea		BALANCE DUE	
	5. DATE OF DETER	5. DATE OF DETERMINATION			
	1970		\$ 2577	- \s	
6. NAME OF APPLICANT(S)		nd No. or R.F.D. No.	, City, State, and ZIP	6. TELEPHONE AREA CODE AND NUMBER	
DENHOLM SEEDS	Code)	222 North "A" Street			
		Lompoc, California 93436			
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.)		10. STATE OF INCORPORATION		11. DATE OF INCOR- PORATION	
Corporation		Californi	1952		
12. Name and mailing address of ap	plicant representative(s	s) if any, to serve	in this application	on and receive all papers:	
X 13B. Exhibit B, Botanical D  13C. Exhibit C, Objective D  X 130. Exhibit D, Data Indica	escription of the Varie				
X 13E. Exhibit E, Statement of		nt's Ownership			
14A. Does the applicant(s) specify (See Section 83(a), (If "Yes,"	that seed of this variet answer 14B and 14C b	y be sold by varie	ty name only as a	class of certified seed?	
14B. Does the applicant(s) specify				generations of production	
limited as to number of genera	tions?	beyond bree		ERED CERTIFIED	
The applicant declares that a viab ance of a certificate and will be r	le sample of basic see eplenished periodically	d of this variety w in accordance wi	ill be deposited u th such regulation	pon request before issu- s as may be applicable.	
The undersigned applicant(s) of uniform, and stable as required to Plant Variety Protection Act.	this sexually-reproduce in Section 41 and is en	ed novel plant vari titled to protection	iety believes that under the provisi	the variety is distinct, ons of Section 42 of the	
Applicant is informed that false	representation herein c	an jeopardize prot	ection and result	in penalties.	
10/4/23 (WATE)			GINATURE OF APP	PLICANT	
				1	
(DATE)			SIGNATURE OF APP	LICANT)	

#### INSTRUCTIONS

GENERAL: Send an original copy of the application, exhibits and \$250.00 fee to U.S. Dept. of Agriculture, Agricultural Marketing Service, Grain Division, 6525 Belcrest Road, Hyattsville, Maryland 20782. (See Section 180.175 of the regulations and rules of practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

#### ITEM

- Insert the date the applicant determined that he had a new variety based on the definition in Section 41 (a) of the Act and decision is made to increase the seed.
- 13a First, give the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method. Second, give the details of subsequent stages of selection and multiplication. Third, indicate the type and frequency of variants during reproduction and multiplication and state how these variants may be identified. Fourth, provide evidence on stability.
- 13b First, give any special characteristics of the seed and of the plant as it passes through the seedling stage, flowering stage and the fruiting stage. Second, describe the mature plant and compare it with a similar commercial variety grown under the same conditions, and indicate the differences.
- 13c A supplemental form will be furnished by the PVPO to describe in detail a variety for each kind of seed.
- 13d Provide complete data indicative of novelty. Seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty may be submitted. Seeds submitted may be sterile.
- 13e Indicate whether applicant is the actual breeder, the employer of the breeder, the owner through purchase or inheritance, etc.

# Application No. 72006 Nasturtium "Scarlet Jewel"

#### Exhibit A

## Origin and Breeding History of the Variety

- 1. "Scarlet Jewel" originated as a selection from the variety Jewel Mixed taken in 1965.
- Selections were made each year for five years and in 1970 pure lines were obtained. Increase was then made for stock seed and the first crop planted in 1972.
- 3. This variety comes quite true for color. Occasionally we remove a few off shades from large acreages. We have to remove some trailing plants from the crops each year.
- 4. A further crop was planted in 1973 and we are using new stock seed for our 1974 crop.

#### Exhibit B

#### Botanical Description of the Variety

1. "Scarlet Jewel" is a dwarf type of Nasturtium with semidouble Scarlet flowers. One of the distinct features is that the flowers stand well above the foliage.

The plants grow to about 30 cm. in height and the foliage is medium green. The flowers are semi-double and are approximately 5-6 cm. in diameter.

This variety flowers very freely in the cooler coastal areas. In warmer climates the best show is produced early and late in the season when the temperatures are cooler.

4

EXHIBIT C

(Nasturtium)

FORM GR-470-27 (S-15-73)

Spur:

Pistil:

Pollen:

2

1 = STRAIGHT

1 = ABSENT

1 = ABSENT

2 = CURVED

2 = PRESENT .

2 = PRESENT

### UNITED STATES DEPARTMENT OF AGRICULTURE

AGRICULTURAL MARKETING SERVICE GRAIN DIVISION HYATTSVILLE, MARYLAND 20782

OBJECTIVE DESCRIPTION OF VARIETY

NASTURTIUM (TROPAEOLUM SPP.) NAME OF APPLICANT(S) FOR OFFICIAL USE ONLY PVPO NUMBER Denholm Seeds
ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) 72006 VARIETY NAME OR TEMPORARY DESIGNATION 222 North "A" Street Lompoc, Calif. 93436 Scarlet Jewel Place the appropriate number that describes the varietal character of this variety in the boxes below.

Place a zero in first box (e.s. 0 8 9 or 0 9 ) when number is either 99 or less or 9 or less. 1. SPECIES: 1 = MAJUS 2 = 5 5 = OTHER (Specify) 4 = MINUS 2 = PELTOPHORUM (Lobbianum) 3 = PEREGRINUM 1 1 = DIPLOID 2 = TETRAPLOID 3 = OTHER (Specify) 2. PLANT: 1 = TALL/CLIMBING > 60 CM. 2 = BUSH ≤ 60 CM. 2 3 0 CM, HIGH 0 DAYS FROM EMERGENCE TO ANTHESIS 0 3. STEM (Mature): 1 = SUCCULENT, THICK 2 = NOT SUCCULENT, RIGID 3 = MOODA 1 4. LEAF: 3 = ENTIRE 2 = DIVIDED OR LOBED Shape: 1 = SCALLOPED 3 6 CM. ACROSS (Leaf size) 8 CM. PETIOLE LENGTH Surface: 1 = NOT GLAUCOUS 2 = GLAUCOUS Order when crushed: 1 = MILD 2 = PUNGENT Color: 1 = LIGHT GREEN (Whirlybird) 2 = MEDIUM GREEN 3 = DARK GREEN (Glorius Gleam) 4 = VARIEGATED 5. FLOWER: 1 = SINGLE ( < 5 petals) 2 = SEMIDOUBLE (8 - 15 PETALS) 3 = DOUBLE ( > 15 petals) 2 Type: 4 = VARIOUS TYPES ON SAME PLANT CM, ACROSS (Flower size) lo 6 8 CM. PEDUNCLE LENGTH Petal Shape: 1 = POINTED 2 = NOTCHED 3 = ENTIRE Petal Margin: 1 = STRAIGHT 2 = WAVY Spur: 1 = ABSENT 2 = PRESENT

FORM GR-470-27 (REV	ERSE)		<u> </u>				
5. FLOWER (Continued	):						
1 Flower Color:	1 = UNIFORM 2 = VARIABLE ON SAME PL	_ANT					
1 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 = YELLOW 3 = ORANGE 4 = RE 8 = VARICOLORED (Describe)	ED-ORANGE 5 = R	ED 6 = SCARLET	_			
1 Dark Spot:	1 = ABSENT 2 = PRESENT		,				
6. DISEASE RESISTANT: (0 = Not Tested; 1 = Susceptible; 2 = Resistant)							
0 LEAF SPOT 0 SPOTTED WILT 0 MOSAIC							
O OTHER (Specify)							
7. INSECT RESISTANT	: (0 = Not Tested; 1 = Susceptible; 2 = Resistant  O OTHER (Specify)_	•		· .			
8. INDICATE A VARIETY THAT MOST CLOSELY RESEMBLES THAT SUBMITTED:							
CHARACTER	VARIETY	CHARACTER	VAF	RIETY			
Plant type	Globe or Gem Scarlet	Flower type	Globe or Ge	m Scarlet .			
Plant size	Globe or Gem Scarlet	Flower size	Globe or Ge				
Leaf shape	Globe or Gem Scarlet	Petal shape	Globe or Ge	m Scarlet			
Leaf size	Globe or Gem Scarlet	Petal color	Globe or Ge	m Scarlet			
Petiole length	Globe or Gem Scarlet	Spur shape/length	Globe or Ge	m Scarlet			

#### REFERENCES

Bailey, L. H. 1949. Manual of Cultivated Plants. MacMillan, New York, N.Y.

USDA Year Book Separate, 1937. Improvement of Flowers by Breeding.

COMMENTS:

#### Exhibit D

### Data Indicative of Novelty

Novelty is based on the following characteristics:

- 1. Dwarf habit.
- 2. Semi-double flowers above the foliage.
- 3. First dwarf Scarlet variety of the Jewel type to be homozygous for color.

Exhibit E

Statement of Applicant's Ownership

Denholm Seeds, Lompoc, California believes it is the sole original and first breeder of the Scarlet Jewel variety of Nasturtium for which it solicits a certificate of protection.